

Pending Claims

1-43. (*canceled*)

44. (*Previously submitted*) A medium for culturing mammalian cells comprising mannose, fructose, galactose, and N-acetylmannosamine.

45. (*Previously submitted*) The medium of claim 44, wherein the medium is serum free.

46. (*Previously submitted*) The medium of claim 44, wherein the mammalian cells are CHO cells.

47. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

48. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

49. (*Previously submitted*) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 44.

50. (*Previously submitted*) The method of claim 49, wherein the medium is serum free.

51. (*Previously submitted*) The method of claim 49, wherein the cells are CHO cells.

52. (*Previously submitted*) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

53. (*Previously submitted*) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

54. (*Previously submitted*) The method of claim 49, wherein the protein is a secreted, recombinant protein.

55. *(Previously submitted)* The method of claim 49, wherein the cells are cultured at a temperature from about 29°C to about 36°C.
56. *(Previously submitted)* A medium for culturing mammalian cells comprising galactose and N-acetylmannosamine.
57. *(Previously submitted)* The medium of claim 56, wherein the medium is serum free.
58. *(Previously submitted)* The medium of claim 56, wherein the mammalian cells are CHO cells.
59. *(Previously submitted)* The medium of claim 56, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
60. *(Previously submitted)* The medium of claim 56, wherein the concentration of galactose is from about 1.5 mM to about 4.5 mM.
61. *(Previously submitted)* A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 56.
62. *(Previously submitted)* The method of claim 61, wherein the medium is serum free.
63. *(Previously submitted)* The method of claim 61, wherein the cells are CHO cells.
64. *(Previously submitted)* The method of claim 61, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
65. *(Previously submitted)* The method of claim 61, wherein the concentration of galactose, is from about 1.5 mM to about 4.5 mM.
66. *(Previously submitted)* The method of claim 61, wherein the protein is a secreted, recombinant protein.
67. *(Previously submitted)* The method of claim 61, wherein the cells are cultured at a temperature from about 29°C to about 36°C.

68. *(Previously submitted)* A medium for culturing mammalian cells comprising mannose, fructose, and galactose.
69. *(Previously submitted)* The medium of claim 68, wherein the medium is serum free.
70. *(Previously submitted)* The medium of claim 68, wherein the mammalian cells are CHO cells.
71. *(Previously submitted)* The medium of claim 68, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.
72. *(Previously submitted)* The medium of claim 68, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
73. *(Previously submitted)* A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 68.
74. *(Previously submitted)* The method of claim 73, wherein the medium is serum free.
75. *(Previously submitted)* The method of claim 73, wherein the cells are CHO cells.
76. *(Previously submitted)* The method of claim 73, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.
77. *(Previously submitted)* The method of claim 73, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
78. *(Previously submitted)* The method of claim 73, wherein the protein is a secreted, recombinant protein.
79. *(Previously submitted)* The method of claim 73, wherein the cells are cultured at a temperature from about 29°C to about 36°C.
80. *(Previously submitted)* A medium for culturing mammalian cells in suspension comprising fructose and galactose.
81. *(Previously submitted)* The medium of claim 80, wherein the medium is serum free.

82. *(Previously submitted)* The medium of claim 80, wherein the mammalian cells are CHO cells.
83. *(Previously submitted)* The medium of claim 80, wherein the concentrations of galactose, and fructose are each from about 1 mM to about 10mM.
84. *(Previously submitted)* The medium of claim 83, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.
85. *(Previously submitted)* A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in suspension in the medium of claim 80.
86. *(Previously submitted)* The method of claim 85, wherein the medium is serum free.
87. *(Previously submitted)* The method of claim 85, wherein the cells are CHO cells.
88. *(Previously submitted)* The method of claim 85, wherein the concentrations of galactose and fructose are each from about 1 mM to about 10 mM.
89. *(Previously submitted)* The method of claim 88, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.
90. *(Previously submitted)* The method of claim 85, wherein the protein is a secreted, recombinant protein.
91. *(Previously submitted)* The method of claim 85, wherein the cells are cultured at a temperature from about 29°C to about 36°C.